

QB

ZONE: _____	Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
			419440	6698142	997	304.8

SECTION: _____

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
0	340	-45	compass				

TARGET: _____

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	0.59	0.59	CAS	
0.59	3.76	3.17	OVB	
3.76	24.62	20.86	LST	
24.62	36.67	12.05	SCH	
36.67	45.73	9.06	LST	
45.73	55.16	9.43	SCH	
55.16	69.62	14.46	LST	
69.62	77.39	7.77	FLR	
77.39	84.89	7.50	SCH	
84.89	89.67	4.78	FEL	
89.67	111.98	22.31		Mixed limestone and schist
111.98	121.65	9.67	SCH	
121.65	127.37	5.72	FEL	
127.37	165.45	38.08	SCH	
165.45	169.09	3.64	LST	
169.03	196.14	27.11	SCH	
196.14	199.78	3.64	FEL	
199.78	213.02	13.24	SCH	
213.02	213.81	0.79	SCH	Schist cross-cut by quartz vein
213.81	224.52	10.71		Mixed limestone and schist
224.52	236.62	12.10	FEL	
236.62	241.03	4.41	SCH	
241.03	256.00	14.97		Mixed limestone and schist
256.00	269.75	13.75		Mixed limestone and schist
269.75	274.35	4.60	SCH	
274.35	284.28	9.93	FEL	
284.28	290.37	6.09	SCH	
290.37	301.24	10.87	FEL	
301.24	304.8	3.56	SCH	

HOLE: QB-12-01

CLAIM: YB83144

Contractor: Beaudoin Diamond Drilling

Drill: _____

Core size: HQ

Casing depth: 0.59 (m) in / out

Drilling dates: August 19 - 23, 2012

Geology logged by: C. Chung

SAMPLES
Numbers: G285465 - G285500, K191901 - K191989
Total: 104
Batch: 1, 2, 3, 4 (17 only)
Date Sent: _____
Certificate: WH12223910, WH12223915, WH12223916
WH12225404, WH12232129

COMMENTS

Geology Log

Hole: QB-12-01

Logger Name: C. Chung

Date: September 07 2012

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other				
														Type	Intensity			Type	Conc. (%)			
0.00	0.59	0.59	0.00	0.59	0.59		CAS	--	--	--	--	--	--			--	--				Casing; no recovery.	
0.59	3.76	3.17	0.59	3.76	3.17		OVB	--	MD	BN	--	4I	3I				--	--				Overburden; Mixed interval of cobbles and coarse sand and grit. Cobbles comprised of medium-dark grey, fine-coarse grained granitoid (dyke fragments?) and tan-grey fine grained silicified limestone. Lower contact at ~55° to core axis. No significant sulphides noted.
									MD	GY	--											
3.76	24.62	20.86					LST	FG	LT	GY	MA	2I	3I								Silicified (Jasperoid?) Limestone; Light-medium grey, very fine-fine grained limestone. Weakly-moderately silicified matrix. Weak, pervasive weathering, giving matrix a slight tan colouring, mostly noted along fractures, decreasing downhole.	
										LT	TN											
																		Li	0.10		No significant sulphide mineralization. Trace-weak amounts of limonite seen on fracture surfaces.	
			3.60	4.05	0.45																Fairly competent core rock with minor fracturing, at ~45-55° to core axis (<8/m). Surfaces are dominantly planar and often coated with a fine layer of clay (kaolinite?). Rock is weak along veining structures. Lower contact zone is mixed and brecciated over 1.5m.	
			4.05	4.09	0.04		CBR	FG	LT	TN	BX	3I									-Similar to general description.	
			4.09	6.21	2.12							2I									-Brecciate weak-moderately oxidized carbonate (calcite?) vein at ~40° to core axis, ~2.5cm wide. Dark grey matrix (clast hosted).	
			6.21	6.56	0.35		LST	FG	LT	GY	FR		2I								-Similar to general description with decreased oxidation.	
			6.56	10.82	4.26																-Similar to general description with increased fracturing infilled with dark brown mineral, horse-tailing from grey calcite veinlet at ~25° to core axis.	
			10.82	11.00	0.18		SCH		MD	GY	SH										-Similar to general description.	
			11.00	12.02	1.02																-Strongly foliated/sheared band (~2cm wide) bounded by white calcite veinlets uphole and granular gouge zone (~2.5cm) with calcite and biotite veinlet downhole. Oriented at ~50° to core axis.	
			12.02	13.46	1.44				LT	TN		3I						Li	0.20		-Similar to general description.	
			13.46	17.63	4.17																-Similar to general description with slightly increased oxidation. Increased irregular fracturing, surfaces coated with limonite and possible manganese oxide(?).	
			17.63	18.36	0.73		LST	FG	DK	GY	FO	1I									-Similar to general description.	
							SCH		LT	GY				CLY	4I			Mu	25.00		-Interval of decreased silicification, strongly calcareous. Medium-dark grey mixed limestone and micaceous schist. Minor zones of light grey granular gouge. Foliation at ~30° to core axis. Brecciated calcareous veinlets noted. No significant sulphide mineralization noted.	
			18.36	23.08	4.72													Bi	5.00			
			23.08	24.62	1.54				MD	GY	BX	1I								X	-Similar to general description.	
																					-Contact zone(?). Mixed/brecciated interval with drop in silicification. Possible shearing(?) at ~50° to core axis. Trace gouge zones.	
24.62	36.67	12.05					SCH	--	DK	GY	FO			CHL	3I			Mu	35.00		Quartz-muscovite-biotite Schist; Moderate-strongly foliated schist, medium -dark green-grey, fine-medium grained.	
										LT	GN							Bi	15.00		Muscovite dominant in matrix with books of biotite (<0.3cm across) often replaced by chlorite scattered throughout. Weakly calcareous matrix.	
																					Low-moderate veining density, dominantly narrow, irregular calcite veinlets (<0.5cm), Generally oriented at ~20-35° to core axis.	

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other				
														Type	Intensity			Type	Conc. (%)			
																	0.50	Cp	0.10		Trace amounts of pyrite noted throughout interval, occurring as blebs and narrow veinlets (<0.2cm) at low angles (<30°) to core axis. Possible rare chalcopyrite.	
																					Competent but soft core rock, fracturing mostly at ~50° to core axis, similar to foliation planes.	
			24.62	27.74	3.12		SCH	--	DK	GY	FO				CLY	2I	--	--				"Contact zone". Interval of mixed/weakly brecciated schist and limestone and minor bands of clay (<4cm, ~1%). Foliation at ~60° to core axis. Irregular, blebby white calcite veinlets common, generally along foliation planes. No significant sulphides.
							LST	FG	LT	GY	BX											
			27.74	28.86	1.12		LST	FG	LT	GY	MA		2I	CHL	1I							-Interval of light grey, fine grained silicified limestone. No significant sulphides.
			28.86	33.02	4.16															x		-Similar to general description.
			33.02	33.24	0.22		LST	FG	LT	GY	MA		2I				--	--				-Interval of silicified limestone bounded by weakly brecciated calcite veinlets (<1cm) at ~45° to core axis.
			33.24	36.67	3.43																	-Similar to general description.
36.67	45.73	9.06					LST	FG	LT	GY	MA		3I	CHL	1I	--	--					Silicified (Jasperoid?) Limestone; Similar to 3.76+-24.62m with little to no oxidation. Fine grained, light grey, silicified limestone with localized sections of brecciation (~5%), generally occurring near upper contact.
											BX											Moderate veining density, dominantly white calcite veinlets, some with dark grey envelopes,. Generally oriented at ~55° to core axis.
																						No significant sulphides noted.
																						Moderate fracturing density, mostly at ~65° to core axis with planar surface with thin clay coating.
			36.67	37.08	0.41						BX											-Similar to general description with slightly more brecciation/mixing. "Contact zone"
			37.08	37.14	0.06		SCH	--	MD	BN	FO		0I									-Small band of quartz-muscovite-biotite schist. Foliation at ~60° to core axis. Distinct upper and lower contacts along foliation planes.
			37.14	38.18	1.04																	-Similar to general description.
			38.18	38.52	0.34		SCH	--	MD	GN	FO		0I	CHL	3I	--	--					-Interval of chlorite altered muscovite-biotite schist. Foliation at ~50° to core axis. Distinct upper and lower contacts at ~40° to core axis. No significant sulphides.
									DK	GY												
			38.52	40.95	2.43																	-Similar to general description.
			40.95	41.71	0.76		SCH	MG	MD	GN				CHL	2I		0.20					-Mixed interval of porphyritic calcareous unit, likely to e the schist unit. Fractured and blocky core rock. Rare-trace pyrite.
									MD	GY												
			41.71	44.82	3.11																	-Similar to general description.
																						-Interbedded fine-medium grained limestone and narrow bands of biotite schist (<3cm wide) with clear contacts. Foliation at ~50-55° to core axis. Decreased silicification, unit is moderate-strongly calcareous. No significant sulphides noted.
			44.82	45.73	0.91		LST	FG	LT	GY												
							SCH	MG	DK	GY	FO											
45.73	55.16	9.43					SCH	MG	MD	GY	PO		1I	CHL	3I			Mu	35.00			Muscovite-Biotite Schist; Moderate-strongly foliated, banded, medium green-grey and medium brown schist. Biotite forms bands (up to 3cm wide) as well as clots (up to 1cm across) and decreases content moving downhole.
									MD	BN	FO							Bi	15.00			Weak-moderate chlorite altered matrix with trace pervasive silicification.
																						Little to no veining, mostly narrow irregular calcite veinlets (<0.2cm).
																	0.20					Trace pyrite, generally forming blebs or blebby discontinuous veinlets.
																						Competent core rock with moderate fracturing, dominantly along foliation planes at ~70° to core axis. Breakage mostly along mica cleavage planes, coated with trace clay.
			45.73	49.22	3.49						BN							Bi	25.00	X		-Similar to general description with more noticeable biotite rich bands and "books" scattered throughout the matrix.
			49.22	50.30	1.08																	-Similar to general description.

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
			50.30	51.12	0.82		SCH	FG						CHL	1I			Bi	5.00	-Interval of fine-medium grained schist. Decreased in foliation intensity and biotite content. Calcareous matrix. No significant sulphides noted.	
			51.12	55.16	4.04												1.00			-Similar to general description with increased fracturing and pyrite content, occurring as small blebby veinlets along foliation planes.	
55.16	69.62	14.46					LST	MG	LT	GY	--		4I	CHL	2I					Silicified (Jasperoid?) Limestone; Light green-grey and tan, fine-medium grained limestone. Pervasive moderate silicification with localized zones of decreased silica content. Minor zones of brecciation/mixing noted, increasing downhole. Moderate veining density, generally narrow irregular calcite veinlets (<0.2cm), Wider structures (>0.5cm) often have brecciated textures.	
																	0.30			Trace sulphides noted, mainly pyrite, often occurring as blebs in localized gouge/clay zones. Fairly competent core rock with minor fracturing, increasing in foliation/laminations moving downhole (increased fracturing along planes). Preferred orientation at ~45-55° to core axis becoming ~70° downhole at lower contact. Localized clay altered zones present (~3% of interval) - possible fault zones(?), generally at ~70° to core axis.	
			55.16	56.86	1.70															-Similar to general description.	
			56.86	57.29	0.43		LST		LT	TN	FO			CHL	3I					-Possible minor fault zone(?). Increased chlorite and clay alteration. Structures at ~75° to core axis. No significant sulphides noted.	
														CLY	2I						
			57.29	61.75	4.46															-Similar to general description.	
			61.75	62.34	0.59		LST		MD	BY	BX			CLY	3I	0.50				-Interval with increased clay content and brecciation. Fine disseminated sulphides (pyrite?) noted with rare blebs (<0.4cm), No measurable orientation seen.	
			62.34	64.61	2.27															-Similar to general description.	
			64.61	65.32	0.71		LST	FG	--	WH	BN		1I	CHL	2I					-Interval of interbedded quartz-muscovite schist and "banded" white limestone. Foliation planes at ~70° to core axis. Increased clay content - possible fault zone(?), Fine disseminated pyrite seen in schist zones. Decrease silicification in limestone units.	
							SCH	FG	DK	GY				CLY	2I	1.00					
			65.32	66.57	1.25				LT	TN										-Similar to general description with light tan colouring - oxidation or sericite(?).	
			66.57	67.83	1.26		LST		--	WH	BN		0I			0.20				-"Banded" limestone interval with decreased silicification. Pale-light green bands at ~65° to core axis (chloritized micas?). Trace sulphides along bands.	
			67.83	68.15	0.32		SCH	FG	DK	GY			0I			0.50				-Dark green-grey calcareous band with distinct contacts at ~70° to core axis. Crosscut by pyrite bearing calcite veinlets (<1cm).	
			68.15	69.62	1.47				MD	GY				CHL	4I				X	-"Contact zone". Mixed interval of medium grey limestone with grey-green bands (<1.5cm wide). No significant sulphides.	
69.62	77.39	7.77					FLR	--	DK	GY	BX			CLY	4I					Fault Zone hosted in Limestone and Schist; Medium green-grey, laminated unit. Dominantly limestone and becoming more schist rich moving downhole. Moderately chlorite altered matrix with localized zones of clay (brecciated zones).	
														CHL	2I						
																1.00		Po	0.20	Discontinuous white calcite veinlets (<0.5cm) common, along foliation at ~35° to core axis. Localized patches and zones of sulphide mineralization, often as irregular and discontinuous veins and veinlets (<0.7cm). High fracturing density, generally along foliation planes and localized gouge. Core rock becomes more competent moving downhole.	
			69.62	70.43	0.81		LST		LT	GY										-Similar to general description. Competent core rock with irregular calcite veinlets (<0.5cm).	
			70.43	70.54	0.11		SCH		DK	GN	PO			CHL	4I					-Band of chlorite altered muscovite-biotite schist. Contacts at ~65° and ~55° to core axis.	

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
			70.54	71.72	1.18		LST		MD	GY				CHL	3I	1.50		Cp	0.20		-Similar to general description with increased chlorite banding. One band (~2.5cm) of sulphides noted, pyrite dominant with possible chalcopyrite(?).
			71.72	73.28	1.56		FLR		MD	GY	BX			CLY	4I						-"Fault zone"(?). Strongly brecciated and clay altered zone at ~55° to core axis. No significant sulphides.
			73.28	76.13	2.85		SCH		MD	GN	FO			CLY	2I						-Similar to general description. Chlorite altered muscovite schist. Foliation at ~40° to core axis.
			76.13	76.27	0.14		VEN		--	BR	VU					40.00		Po	15.00		-Sulphide vein at ~35° to core axis. Vuggy and pitted. Dominantly pyrite with pyrrhotite. Possible rare sphalerite(?).
			76.27	77.39	1.12											2.00				X	-Similar to general description with slight increase in pyrite veinlets.
77.39	84.89	7.50					SCH		MD	BN	FO			CHL	2I			Bi	15.00		Quartz-Muscovite-Biotite Schist; Banded medium brown and green schist.
									MD	GN											Weak-moderately chlorite altered, decreasing downhole. Weakly calcareous.
																					Moderate veining density, white calcite veinlets (<1cm) along foliation at ~45° to core axis. No significant sulphides noted.
																					Competent but soft core rock, easily fractures along foliation planes. Higher fracture density moving downhole.
			77.39	79.31	1.92				MD	GN				CHL	3I						-Similar to general description with more intense chlorite alteration (green matrix).
			79.31	81.61	2.30															X	-Similar to general description.
			81.61	84.89	3.28									CLY	2I			Bi	30.00	X	-Similar to general description but much more fissile (increased fracturing) with zones of rubble. Trace pyrite noted in one gougey section. At 83.30m - crenulations.
84.89	89.67	4.78					FEL	MG	LT	GY	PO			CHL	2I						Felsic Dyke(?); Felsic granitoid unit, possible dyke. Quartz and feldspar phenocrysts noted (<0.3cm). Increasing chlorite alteration moving downhole. Minor amounts of fracturing along weak foliation planes at ~50° to core axis. White quartz veinlets (<1cm) common.
			84.89	86.33	1.44											1.50				X	Sulphides occurring along vein structures, dominantly pyrite with trace pyrrhotite. Disseminated or irregular clots.
			86.33	86.58	0.25		SCH		DK	GY						--	--				-Similar to general description.
			86.58	89.67	3.09				MD	GN						2.00					-Small band of muscovite schist at ~60° to core axis. No change in sulphide content.
																					-Similar to general description with increased chlorite alteration and quartz veining. Minor increase in sulphides.
89.67	111.98	22.31					LST	FG	DK	GY	BN	2I		CHL	1I	--	--				Limestone with Quartz-Mica Schist Interbeds; Dark brown-grey, fine grained limestone with small interbeds/fragments(?) of quartz-muscovite-biotite schist, some with planar and some with irregular contacts (~15% of interval). Matrix is weak=moderately silicified and weakly chlorite altered.
									MD	BN											irregular and discontinuous calcite veinlets and common, generally cross-cutting laminations(?). No significant sulphides noted.
							SCH		WH	PO											
			89.67	90.40	0.73																-Similar to general description.
			90.40	91.42	1.02		SCH		DK	BN	FO										-Interval of biotite-rich schist. Foliation at ~65° to core axis.
			91.42	100.65	9.23																-Similar to general description.
			100.65	102.42	1.77		SCH		DK	GY				3I		0.50					Silicified quartz-muscovite schist with altered weathered feldspar phenocrysts (<0.2cm). Weak foliation at ~50° to core axis. Narrow sulphides veinlets present at contact zones dominantly pyrite. Contact zones may be small felsic dyke units(?).
			102.42	104.33	1.91																Similar to general description.
			104.33	106.56	2.23									CHL	3I	0.70					-Similar to general description with increased chlorite and clay due to three quartz veins within interval at 104.33-104.44m, 104.85-105.03m, and 105.32-106.56m. General orientation at ~55° to core axis. Trace sulphides associated with quartz veins, dominantly pyrite, blebby in veins and disseminated in matrix.
			106.56	106.98	0.42																-Similar to general description.

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY					ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type			Conc. (%)
			106.98	107.21	0.23		FEL		LT	GY	PO										-Felsic dyke(?) - quartz-feldspar matrix. Sharp contacts at ~35° to core axis.
			107.21	108.28	1.07																-Similar to general description.
			108.28	108.52	0.24		SCH		MD	GY				CLY	4I	0.20					-Gougey clay zone - appears to be strongly clay altered muscovite schist. Contacts at ~65° to core axis. Trace disseminated pyrite noted in veinlets.
			108.52	111.31	2.79													Bi	15.00		-Similar to general description with increasing schistosity. Foliation at ~60° to core axis. Increased biotite content.
			111.31	111.98	0.67		FEL		LT	GY	PO					0.20					-Felsic dyke(?) - quartz-feldspar porphyry. Feldspars altered to tan-brown colouring. Contacts at ~65° to core axis. Pyrite veinlet noted (<0.1cm).
111.98	121.65	9.67					SCH		MD	GY	FO		2I	CHL	1I						Quartz-Muscovite-Biotite Schist; moderate-strongly foliated quartz-mica schist with weak chlorite alteration. Biotite "books" (<0.5cm) throughout matrix. Low veining density, generally white calcite veinlets cross cutting foliation at ~20° to core axis and occasionally truncated by minor gougey zones. Few along foliation.
									DK	GY	PO					0.20					Pyrite blebs noted in calcite veinlets.
			111.98	120.58	8.60															X	Competent core rock with minor fracturing, generally along foliation at ~65° to core axis.
			120.58	121.65	1.07		LST		--	WH	BN					1.00					-Similar to general description.
									DK	GY											-Banded black and white limestone. Bands at ~55° to core axis. Slight increase in pyrite blebs.
121.65	127.37	5.72					FEL	MG	LT	GY	PO		2I	CHL	1I						Felsic Dyke(?); Similar to 84.89-89.67m. Weakly foliated grey and green porphyritic quartz and feldspar unit. Biotite "books" (<0.3cm) common and some altered to light tan-brown colouring.
																					Moderate veining density, generally grey quartz-carbonate veins (up to 1cm). Preferred orientation at ~55° to core axis.
																1.00					Sulphides seen as blebs and narrow and discontinuous veinlets (<0.3cm).
			121.65	123.56	1.91															X	-Similar to general description.
			123.56	123.65	0.09		SCH		DK	GY	FO			CHL	3I	2.00					-Strongly foliated, calcareous schist. Foliation at ~60° to core axis.
			123.65	125.31	1.66																-Similar to general description.
			125.31	125.91	0.60		SCH		DK	GY	FO										-Band of muscovite schist. Foliation at ~45° to core axis. Grey quartz vein at 125.59-125.65m.
			125.91	127.37	1.46																-Similar to general description.
127.37	165.45	38.08					SCH	FG	MD	GY	FO			CHL	1I						Quartz-Muscovite Schist; Medium-dark grey, fine grained, weakly calcareous and chlorite altered muscovite-rich schist.
																					Low-moderate veining density, generally white calcite veinlets (<0.5cm) at low angles (<30°) to core axis, cross cutting foliation.
																0.50					Trace-moderate fine grained pyrite, scattered throughout the matrix and along veinlets (<0.2cm).
																					Fairly competent core rock with fractures generally along foliation at ~50° to core axis with increased fissility with increased biotite content. Crenulations common.
			127.37	127.68	0.31																-Similar to general description.
			127.68	127.95	0.27								2I			0.70					-Quartz vein with chlorite altered envelope zone. Vein at ~50° to core axis at 127.86-127.95m. Pyrite blebs noted.
			127.95	131.66	3.71		SCH	FG								1.00					-Similar to general description with less defined foliation and increased sulphide content, occurring in localized bands.
			131.66	133.63	1.97		FEL		LT	GY				CHL	1I						-Felsic dyke - similar to 121.65-127.37m. Weakly foliated quartz-feldspar porphyritic unit. Weakly gradational contacts at ~40° to core axis. Grey quartz veins present. Fine disseminated pyrite noted throughout matrix. Weak foliation at ~45° to core axis.
			133.63	135.73	2.10															X	-Similar to general with increased muscovite content. Strongly foliated at ~50° to core axis. No significant change in sulphide content.

n = none, t = <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
			135.73	139.18	3.45				MD	BN								Bi	30.00	-Similar to general description with increased biotite content. Core rock is weak and fissile - blocky/rubbly core. Fractures along foliation at ~40° to core axis.	
			139.18	140.40	1.22															-Similar to general description.	
			140.40	142.08	1.68		FEL		LT	GN				CHL	3I					-Two felsic dykes and/or quartz veins at 140.40-140.78m and 141.0-142.08m with associated envelopes. Contacts at ~30° to core axis. Muscovite schist host.	
			142.08	148.10	6.02															-Similar to general description.	
			148.10	148.37	0.27		VN		LT	GY				CHL	2I					-Grey quartz vein with weakly gradational contact zones. Oriented at ~50° to core axis.	
			148.37	152.80	4.43															-Similar to general description.	
			152.80	155.71	2.91		FEL	MG	LT	GY	PO			CHL	2I	1.00				-Quartz-feldspar porphyritic unit, weakly foliated at ~50° to core axis, generally stronger near contacts. Fairly sharp contacts at ~40° to core axis. Sulphides noted throughout, occurring as discontinuous veinlets (<0.4cm) and disseminated blebs. Grey quartz vein at 153.58-153.90m at ~20° to core axis.	
			155.71	156.68	0.97				MD	GN											
			156.68	161.05	4.37		FEL	MG	LT	GY	PO			CHL	3I	0.30				-Similar to general description.	
			161.05	165.19	4.14				MD	GN										-Similar to 152.80-155.71m - quartz-feldspar porphyritic unit. Weakly foliated at ~50° to core axis. Weakly gradational contacts at ~60° to core axis. Trace pyrite.	
			165.19	165.45	0.26				MD	BN								Bi	40.00	-Similar to general description with varying foliation intensity at ~45° to core axis.	
																				-"Contact zone". Biotite flooded zone with calcite blebs. Strongly foliated at ~50° to core axis.	
165.45	169.09	3.64					LST	MG	LT	GY			1I			0.20				Limestone; White-tan, fine-medium grained limestone. Weakly silicified with localized tan-pink patches (jasperoid?). Contacts at ~50° to core axis.	
									--	WH										Trace disseminated pyrite blebs scattered tin the matrix.	
																				Competent core rock with minor fracturing at ~75° to core axis. Weakly foliated at ~55° to core axis.	
			165.45	167.85	2.40															-Similar to general description.	
			167.85	168.22	0.37		SCH		MD	GN	FO									-Band of micaceous schist. Sharp contacts at ~40° to core axis.	
			168.22	168.92	0.70															-Similar to general description.	
			168.92	169.09	0.17													Bi	40.00	-"Contact zone". Increased biotite content.	
169.09	194.14	25.05					SCH	FG	MD	GY				CHL	2I					Quartz-Muscovite Schist; Weak-moderately foliated, medium green-grey micaceous schist. Chlorite altered matrix.	
									MD	GN				CLY	1I					Low-moderate veining density, large grey quartz veins (up to ~acme) and narrow irregular calcite veinlets common at ~55° to core axis.	
																0.50		Po	0.10	Sulphides are present generally occurring as discontinuous veinlets, dominantly pyrite with rare pyrrhotite.	
																				Competent core rock, moderate fracture density, generally at ~40° to core axis. Weak-moderately foliated at ~50° to core axis.	
			169.09	173.46	4.37									CLY	2I					-Similar to general description, with one patch of slightly stronger clay alteration at 172.20-172.50m at ~65° to core axis.	
			173.46	173.57	0.11		VEN		--	GY						0.10				-Grey quartz vein. Distinct contacts at ~45° to core axis. No significant sulphides.	
			173.57	176.58	3.01											1.00		Po	0.20	-Similar to general description, slight increase in sulphide content, carried in quartz vein at ~45° to core axis, dominantly pyrite with trace pyrrhotite.	
			176.58	176.78	0.20		VEN		--	GY						0.10				-Zone of quartz flooding/quartz vein(?) at ~40° to core axis. Trace sulphides - pyrite.	
			176.78	177.67	0.89		SCH	MG												-Coarser grained than general interval and strongly foliated at ~60° to core axis. Quartz "augends" noted.	
			177.67	178.12	0.45		VEN			GY										-Quartz vein zone, hosted in schist. Oriented at ~55° to core axis. Discontinuous pyrite veinlets noted (<0.1cm).	
			178.12	182.18	4.06															-Similar to general description.	

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
			182.18	184.25	2.07		FLR		LT	GN	BX			CHL	3I						-Strongly brecciated zone, white calcareous clay/gouge infill. Preferred orientation at ~40° to core axis. No significant sulphides - fault zone(?)
			184.25	187.98	3.73				--	WH				CLY	3I						-Similar to general description.
			187.98	188.51	0.53		FEL		MD	GN	PO			CHL	2I						-Silica flooded brecciated/porphyritic interval - likely felsic dyke. Weakly gradational contacts at ~40° to core axis.
			188.51	189.73	1.22				--	WH	BX										-Similar to general description.
			189.73	189.81	0.08		FEL		LT	GY	PO			CHL	2I						-Similar to 187.98-188.51m. Contacts at ~50° to core axis.
									DK	GN											
			189.81	194.55	4.74																-Similar to general description, with increased altered feldspar phenocrysts (<0.2cm) giving matrix a speckled appearance.
			194.55	196.14	1.59																-Similar to general description.
196.14	199.78	3.64	196.14	199.78	3.64		FEL			GY	PO		1I	CHL	2I						Felsic Dyke; Quartz-feldspar porphyritic unit. Chlorite altered matrix and occurring as narrow veinlets throughout the core.
										GN							0.20				Low veining density, often narrow irregular calcite veinlets (<0.2cm).
																					Fine disseminated-blebby pyrite seen scattered in matrix.
																					Competent core rock with minor fracturing at ~45° to core axis.
																					-One band of micaceous schist noted at 197.68-197.82m. Foliation at ~60° to core axis.
199.78	213.02	13.24					SCH	FG	MD	GY			2I	CHL	1I						Quartz-Muscovite Schist; Moderate foliated, medium grey, fine grained muscovite schist. Foliation at ~55° to core axis.
																	0.20				Low-moderate veining density, generally quartz-carbonate veinlets (<1cm) at ~30° to core axis.
																					Trace pyrite, often disseminated, occasionally in veinlets.
			199.78	209.31	9.53																Fairly competent core rock with fracturing at ~45° to core axis. More blocky in zones of higher mica content.
			209.31	210.03	0.72		FEL		LT	GY	PO						1.00				-Similar to general description. Crenulations noted throughout the matrix.
									MD	GN											-Felsic dyke - weakly chlorite/sericite altered. Contacts at ~55° to core axis. Disseminated pyrite noted throughout interval.
			210.03	211.77	1.74																-Similar to general description.
			211.70	212.42	0.72								3I								-Zone of silicification. Felsic dyke at 211.77-211.99m and quartz vein at 212.15-212.45m. Oriented at ~60° and ~40° to core axis. No change in sulphide content.
			212.42	213.02	0.60																-Similar to general description.
213.02	213.81	0.79	213.02	213.81	0.79		VEN		MD	GN			3I	CHL	2I	10.00	Po	30.00			Quartz-Muscovite Schist; Similar to 199.78-213.02m hosting a massive sulphide band. Foliation at ~45° to core axis. Fracturing at ~60° to core axis. Semi-massive to massive pyrrhotite with pyrite at ~40° to core axis. Alteration envelopes at 213.02-213.37m and 213.73-213.81m.
213.81	224.52	10.71					LST	FG	--	WH											Interbedded Limestone and Micaceous Schist; Interbedded light grey-white limestone and medium grey muscovite schist. Weakly foliated at ~40° to core axis. ~40% limestone, 60% schist within this interval. Sharp contacts at ~65° to core axis.
							SCH	FG	MD	GY	FO		2I	CLY	2I		0.70	Po	1.00		Trace moderate calcite veinlet density (<1.0cm) at ~40° to core axis.
																					Fine disseminations to localized massive sulphides (pyrrhotite and pyrite).
			213.81	216.30	2.49																Competent core rock, fracturing at ~50° to core axis. Rare strongly clay altered intervals.
																					-Similar to general description, with bands of biotite rich schist.

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other				
														Type	Intensity			Type	Conc. (%)			
			216.30	218.52	2.22		SCH		MD	GY	FO					0.30					-Weakly calcareous muscovite schist. Crenulations can be seen in matrix. Fine disseminated pyrite noted. Foliation at ~45° to core axis.	
			218.52	221.11	2.59																-Similar to general description.	
			221.11	222.18	1.07		SCH		DK	GY						0.50					-Similar to 216.30-218.52m, increased quartz-carbonate veinlets. Foliation at ~40° to core axis. Pyrite noted in veinlets.	
			222.18	222.71	0.53		VEN				MA					10.00		Po	60.00	X	-"Vein" - band of massive sulphides, dominantly pyrrhotite and trace pyrite and possible chalcopyrite. Contact at ~55° to core axis.	
			222.71	223.64	0.93		FLR							CLY	3I						-Fault zone(?) - strongly chlorite and clay altered. Oriented at ~70° to core axis. Possible trace graphite(?).	
														CHL	2I							
			223.64	224.52	0.88																-Similar to general description.	
224.52	236.62	12.10					FEL		MD	GY	PO		2I	CHL	1I							Felsic Dyke; Weak-moderate foliated quartz-feldspar porphyry. Foliation at ~50° to core axis. Moderate chlorite and sericite altered with silicification.
											FO			SER	2I		0.10					Quartz-carbonate veining common (<1.0cm). Oriented at ~35° to core axis.
																						Trace pyrite, in narrow veinlets (<0.2cm) and blebs (<0.2cm).
																						Fairly competent core rock, moderate fracturing density generally at ~55° to core axis.
			224.52	227.81	3.29		SCH		MD	GY	FO			CHL	3I							-Muscovite schist interval. Foliation at ~45° to core axis. White-grey quartz veins (<3cm) common, oriented at ~65° to core axis.
			227.81	228.30	0.49		FLR		LT	GY	BX			CLY	3I	0.20		Po	0.10			-Brecciated/faulted zone, oriented at ~55° to core axis. Coarse granular gouge with large fragments of quartz vein with pyrite.
			228.30	231.39	3.09																	-Similar to general description, with stronger foliation at ~45° to core axis.
			231.39	231.44	0.05		FLR		LT	GY				CLY	3I							-Band of granular gouge, oriented at ~70° to core axis.
			231.44	234.32	2.88				LT	GY			2I									-Weakly bleached, moderate silicified quartz-feldspar porphyry unit. Contacts at ~50° to core axis. Carbonate healed fractures common. Silicified zones (veins).
			234.32	236.62	2.30																	-Similar to general description.
236.62	241.03	4.41	236.62	241.03	4.41		SCH		LT	GY	PO			CHL	2I						X	Quartz-Muscovite Schist; Moderate foliated quartz-muscovite schist with subrounded quartz eyes (<0.7cm). Foliation at ~55° to core axis.
									MD	GN				SER	1I							Weakly chlorite/sericite altered matrix. Tan-brown speckled - altered feldspar(?).
																0.10						Narrow white calcite veinlet (<0.7cm), generally at ~45° to core axis.
																						Trace amounts of pyrite, often carried in calcite veinlets.
																						Competent core rock, rare fractures at ~50° to core axis.
241.03	256.00	14.97					SCH	FG	MD	BN	SC			SER	2I							Mixed Interbeds of Quartz-Muscovite-Biotite Schist and Limestone; Dominantly weakly chlorite/sericite altered muscovite schists with minor zones of limestone.
							LST		MD	GY												Moderate foliated matrix at ~45° to core axis. Crenulations common.
																						Moderate vein density, generally discontinuous calcite veinlets (<0.5cm) along foliation planes.
																0.20						Trace-minor finely disseminated pyrite scattered in matrix.
																						Competent core rock with minor fracture density generally at ~60° to core axis.
			241.03	248.92	7.89																X	-Similar to general description, including fragments(?) of speckled white and black calcareous schist, fairly sharp/defined contacts.
			248.92	252.32	3.40		SCH		LT	GY	PO			CLY	4I	0.40						-Slightly bleached, brecciated zone of the schist unit. White grey quartz veins (<4cm) noted, oriented at ~70° to core axis. Medium-dark grey gouge/clay. Trace sulphides.
			252.32	256.00	3.68				LT	GN	BX											
																						-Similar to general description.
256.00	269.75	13.75					SCH		MD	BN	SC			SER	1I							Mixed Quartz-Muscovite-Biotite Schist and Limestone; Similar to 241.03-256.0m. Dominantly zones of mixed/crenulated muscovite-biotite schist with small zones of banded limestone. Weakly gradational but distinct contacts at ~45° to core axis.
									LT	GY				CHL	1I							Weakly chlorite/sericite altered matrix. General foliation at ~55° to core axis.

n = none, t = <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
							LST		MD	BN	FO		3I				0.20	Po	0.20	Low-moderate veining density, dominantly at ~30° to core axis. Quartz-carbonate (<0.7cm). Trace-minor fine disseminated pyrite and/or pyrrhotite, along foliation. Competent core rock with minor fracturing at ~45° to core axis. -Finely laminated zone, foliation at ~55° to core axis. -Similar to general description.	
			259.96	260.45	0.49				DK	GY	LA										-Finely laminated zone, foliation at ~55° to core axis.
			260.45	261.98	1.53																-Similar to general description.
			261.98	262.15	0.17				DK	GY	LA		3I								-Finely laminated and strongly silicified zone, foliation at ~55° to core axis.
			262.15	269.75	7.60																-Similar to general description.
269.75	274.35	4.60					SCH	FG	MD	BN	FO					--	--	Bi	25.00		Quartz-Muscovite-Biotite Schist; Calcareous quartz-muscovite-biotite schist. Moderate-strongly foliated at ~55° to core axis. Low veining density with narrow white calcite veinlets (<0.5cm) at ~55° to core axis. No significant sulphides noted. Competent core rock with minor fracturing along foliation at ~65° to core axis. -Similar to general description.
																					-Zone of mixed schist/fragment(?). Change in foliation at ~25° to core axis.
			269.75	271.84	2.09																-Similar to general description.
			271.84	272.41	0.57				LT	GY	SC										-Zone of mixed schist/fragment(?). Change in foliation at ~25° to core axis.
			272.41	274.35	1.94																-Similar to general description.
274.35	284.28	9.93					FEL		LT	GY			3I	CHL	2I						Felsic Dyke hosted in Micaceous Schist; Silicified felsic dyke hosted in quartz-muscovite schist (foliated at ~40° to core axis). Moderately silicified and weakly chlorite and sericite altered. Weakly gradational contacts at ~30° to core axis.
									LT	GN											Low veining density. Calcite veinlets along foliation in limestone and at ~30-40° to core axis in dyke unit.
							SCH	FG	MD	GY	PO			SER	1I						Trace amounts of finely disseminated sulphides with occasional blebs (<0.3cm). Pyrite and pyrrhotite present.
																0.30		Po	0.20		Competent core rock, minor fracturing generally along veinlets and in sections of schist. -Bleached interval, increased sericite and clay alteration. Low angle fracturing and slightly rubbled core zone.
			274.35	275.06	0.71				--	WH				SER	3I						-Similar to general description.
									LT	GN				CHL	1I						-Quartz-carbonate vein at ~50° to core axis with muscovite flooded contact zone (~2cm wide).
			275.06	276.39	1.33		FEL														-Quartz-muscovite schist interval, foliation at ~55° to core axis. Calcareous matrix.
			276.39	276.76	0.37								5I								-Similar to general description.
			276.76	280.28	3.52		SCH		MD	GY			2I								
			280.28	284.28	4.00		FEL														
284.28	290.37	6.09					SCH		MD	GY	FO			CHL	1I						Quartz-Muscovite Schist; Calcareous quartz-muscovite schist, foliated at ~60° to core axis with elongated calcite blebs throughout matrix. Finely laminated with weak chlorite and sericite alteration. Bands with moderate biotite content.
														SER	1I						Low veining density, generally along foliation planes.
																0.10					Trace pyrite, finely disseminated in matrix.
																					Competent core rock with fracturing along foliation plane.
			284.28	290.28	6.00																-Similar to general description.
			290.28	290.37	0.09																-"Contact zone" - Strongly foliated with higher muscovite and biotite content at ~45° to core axis.
290.37	301.24	10.87					FEL		MD	GY	PO			CHL	1I						Felsic Dyke; Medium grey porphyritic quartz-feldspar unit. Weakly foliated at ~45-50° to core axis and weakly chlorite and sericite altered matrix. Weakly calcareous.
														SER	1I						Low-moderate vein density. Grey quartz veinlets (<1cm) and white calcite veinlets (<0.3cm) seen within the interval at ~60° to core axis.

Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION				
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other							
														Type	Intensity			Type	Conc. (%)						
																0.20		Po	0.10		Trace sulphides present, occurring as fine disseminations and carried in narrow veinlets.				
																					Hard and competent core rock, minor fracturing at ~10° to core axis.				
			290.37	290.41	0.04				LT	GY	MA			SER	3I						"Contact zone" - weakly brecciate quartz vein at upper contact at ~60° to core axis.				
			290.41	293.67	3.26									SER	2I						-Similar to general description, with slightly increased sericite alteration of matrix. Weakly foliated.				
			293.67	294.33	0.66									SER	3I						-Interval of strongly sericite altered matrix, likely associated with band of muscovite schist at ~65° to core axis at 294.04-294.33m				
			294.33	295.74	1.41																-Similar to general description.				
			295.74	296.73	0.99									SER	3I	0.40		Po	0.10		-Similar to general description, with more intensive sericite alteration. Interval has weak bleached appearance, Sulphide veinlets appear to be associated to this zone.				
			296.73	301.24	4.51									CLY	1I										
																				X	-Similar to general description.				
301.24	304.80	3.56					SCH		MD	BN	FO			CLY	1I						Quartz Muscovite-Biotite Schist; Similar to 256.0-269.75m. Foliated muscovite-biotite schist (at ~45° to core axis). Moderate-strongly crenulated sections.				
														SER	2I						Low veining density - most veining structures appear to be along foliation planes.				
																					No significant sulphide content noted.				
																					Blocky but hard core rock, breakages generally along foliation planes.				
																					-Two zones of slightly increased clay and gouge at 301.75-302.0m and 302.47-302.68m.				
																					Fine gouge at ~60° to core axis.				
																					EOH @ 304.80m				

Secondary Structure Log

Hole: QB-12-01

Logger Name:

Date: September 7, 2012

2° Structure Type	From (m)	To (m)	Attitude (TCA)	Attitude (TRFE)	Count	MINERALS		DESCRIPTION	Photo
						Type	Conc. (%)		
VT	3.77	4.57	35.00	23.00	8.00				
VT	8.12	8.94	42.00		9.00				
VT	9.72	10.20	45.00		11.00				
VT	13.52	14.63	40.00		11.00				
VT	15.96	17.29	41.00		13.00				
VT	39.62	40.00	79.00		3.00				
VT	42.17	43.05	60.00		9.00				
VT	50.70	51.63	78.00		4.00				
VT	56.57	57.00	40.00		9.00				
VT	64.84	65.26	75.00	95.00	9.00				
VT	70.74	71.23	60.00		9.00				
VT	77.39	78.21	47.00	0.00	14.00			Along with foliation.	
VT	80.18	81.11	30.00	0.00	14.00			Along with foliation.	
VT	84.57	85.34	65.00		4.00				
VT	85.34	86.38	35.00		10.00				
VT	92.86	93.37	54.00		8.00				
VT	108.56	109.42	55.00	0.00	10.00			Along with foliation.	
VT	112.34	113.32	70.00	0.00	14.00			Along with foliation	
VT	114.79	115.82	71.00	0.00	11.00			Along with foliation.	
VT	119.95	120.81	60.00	0.00	9.00			Along with foliation.	
VN	126.00	127.05	85.00		3.00				
VT	132.59	133.60	54.00		5.00				
VN	141.47	142.30	42.00		3.00				
VN	164.11	165.10	55.00	0.00	3.00			Along with foliation.	
VN	168.84	170.40	55.00	0.00	2.00			Along with foliation.	
VN	173.35	178.20	43.00	0.00	4.00			Along with foliation.	
VT	184.00	184.95	50.00	0.00	2.00			Along with foliation.	
VN	192.12	196.60	55.00	80.00	2.00				
VT	196.18	197.65	35.00		3.00				
VN	209.24	209.53	55.00		2.00				
VT	209.67	210.10	43.00		2.00				
VT	213.72	214.64	30.00	100.00	2.00				

Secondary Structure Log

[illegible]

Density Log

Hole: QB-12-01

Date: September 08 2012

[illegible]

Sample Log

Hole: QB-12-01

Date: September 08 2012

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample Number	Batch	Weight (kg)			Comments
0.00	0.59	0.59	--		N/S					Casing; no recovery
0.59	23.08	22.49	--		N/S					No mineralization
23.08	24.62	1.54	1.54	100	G285465	1	5.00			Brecciated zone - limestone
24.62	26.24	1.62	1.44	88.9	G285466	1	5.20			Contact zone - mixed
--	--				G285467	1	0.30			Standard: CDN-ME-6
26.24	28.86	2.62	2.55	97.3	G285468	1	9.30			Contact zone - mixed
28.86	31.46	2.60	2.56	98.5	G285469	1	8.60			Schist
31.46	34.06	2.60	2.55	98.1	G285470	1	8.80			Schist
34.06	36.67	2.61	2.59	99.2	G285471	1	8.20			Schist
--	--				G285472	1	3.30			Blank
36.67	38.52	1.85	1.85	100	G285473	1	6.00			Mixed schists/limestone
38.52	40.95	2.43	2.42	99.6	G285474	1	8.30			Limestone
40.95	41.71	0.76	0.76	100	G285475	1	2.70			Schist
41.71	44.82	3.11	2.92	93.9	G285476	1	10.40			Limestone
44.82	45.73	0.91	0.91	100	G285477	1	3.00			Contact zone
--	--				G285478	1	0.00			Coarse reject duplicate
45.73	48.77	3.04	3.00	98.7	G285479	1	9.90			
48.77	51.12	2.35	2.33	99.1	G285480	1	7.70			
51.12	53.14	2.02	1.99	98.5	G285481	1	7.10			
53.14	55.16	2.02	1.97	97.5	G285482	1	6.50			
--	--				G285483	1	0.30			Standard: CDN-ME-6
55.16	57.91	2.75	2.74	99.6	G285484	1	9.60			
57.91	60.96	3.05	2.95	96.7	G285485	1	10.10			
--	--				G285486	1	4.40			Quarter split duplicate
60.96	64.01	3.05	2.95	96.7	G285487	1	10.30			
64.01	66.57	2.56	2.52	98.4	G285488	1	8.80			
66.57	68.95	2.38	2.38	100	G285489	1	7.90			"Banded Limestone"
68.95	69.62	0.67	0.67	100	G285490	1	2.50			Contact zone - mixed
69.62	71.72	2.10	2.10	100	G285491	1	7.00			
71.72	73.28	1.56	1.19	76.3	G285492	1	4.10			Fault zone(?)
73.28	76.13	2.85	2.42	84.9	G285493	1	9.10			
76.13	77.39	1.26	1.25	99.2	G285494	1	4.80			Pyrite zone + Contact zone
--	--				G285495	1	3.00			Blank
77.39	79.31	1.92	1.89	98.4	G285496	1	6.30			
79.31	81.61	2.30	2.30	100	G285497	1	7.70			
81.61	83.25	1.64	1.54	93.9	G285498	1	5.10			
83.25	84.89	1.64	1.60	97.6	G285499	1	5.60			
84.89	87.28	2.39	2.39	100	G285500	1	7.50			Felsic dyke
87.28	89.67	2.39	2.38	99.6	K191901	2	7.80			Felsic dyke
89.67	91.42	1.75	1.75	100	K191902	2	6.30			
91.42	94.42	3.00	2.96	98.7	K191903	2	10.40			
94.42	98.17	3.75			N/S					
98.17	99.60	1.43	1.43	100	K191904	2	4.90			
99.60	100.50	0.90	0.90	100	K191905	2	3.50			
100.50	102.42	1.92	1.87	97.4	K191906	2	5.90			

Sample Log

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample Number	Batch	Weight (kg)			Comments
--	--				K191907	2	3.00			Blank
102.42	104.33	1.91	1.90	99.5	K191908	2	6.30			
104.33	106.56	2.23	2.23	100	K191909	2	7.60			Zone of quartz veins
106.56	108.52	1.96	1.92	98	K191910	2	6.40			
108.52	111.31	2.79	2.78	99.6	K191911	2	9.50			
--	--				K191912	2	0.30			Standard: CDN-ME-6
111.31	114.31	3.00	2.98	99.3	K191913	2	10.00			
114.31	117.31	3.00	2.99	99.7	K191914	2	10.80			
117.31	119.55	2.24	2.24	100	K191915	2	7.30			
119.55	120.58	1.03	0.99	96.1	K191916	2	3.20			
120.58	121.65	1.07	1.07	100	K191917	2	3.80			Limestone with pyrite veinlets
--	--				K191918	2	3.00			Blank
121.65	123.65	2.00	2.00	100	K191919	2	6.80			
123.65	126.37	2.72	2.72	100	K191920	2	9.20			
126.37	127.37	1.00	0.97	97	K191921	2	3.20			
127.37	129.54	2.17	2.12	97.9	K191922	2	7.40			
129.54	131.66	2.12	2.11	99.5	K191923	2	7.10			
--	--				K191924	2	0.00			Coarse reject duplicate
131.66	133.63	1.97	1.95	99	K191925	2	6.40			Felsic dyke
133.63	135.73	2.10	2.08	99	K191926	2	6.80			
135.73	137.00	1.27	1.23	96.9	K191927	2	4.50			Biotite rich schist
137.00	139.18	2.18	2.18	100	K191928	2	7.30			Biotite rich schist
139.18	142.08	2.90	2.87	99	K191929	2	9.60			
--	--				K191930	2	0.30			Standard: CDN-ME-6
142.08	145.00	2.92	2.85	97.6	K191931	2	10.10			
145.00	148.00	3.00	2.95	98.3	K191932	2	10.50			
148.00	150.40	2.40	2.37	98.7	K191933	2	8.40			
--	--				K191934	2	3.60			Quarter split Duplicate
150.40	152.80	2.40	2.35	97.9	K191935	2	7.90			
152.80	155.71	2.91	2.90	99.7	K191936	2	9.70			
155.71	158.38	2.67	2.65	99.3	K191937	3	8.60			
158.38	161.05	2.67	2.63	98.5	K191938	3	8.80			
161.05	163.25	2.20	2.18	99.1	K191939	3	7.40			
163.25	165.45	2.20	2.14	97.3	K191940	3	8.20			Contact zone to white limestone
--	--				K191941	3	0.30			Standard: CDN-ME-6
165.45	167.24	1.79	1.79	100	K191942	3	5.90			Limestone
167.24	169.09	1.85	1.82	98.4	K191943	3	6.50			Limestone
169.09	172.10	3.01	3.00	99.7	K191944	3	9.80			
172.10	175.10	3.00	3.00	100	K191945	3	10.40			
175.10	176.58	1.48	1.48	100	K191946	3	5.30			Sulphide veins
--	--				K191947	3	3.00			Blank
176.58	178.18	1.60	1.54	96.3	K191948	3	5.20			Quartz veins
178.18	180.18	2.00	2.00	100	K191949	3	6.80			
180.18	182.18	2.00	2.00	100	K191950	3	7.20			
182.18	184.25	2.07	2.07	100	K191951	3	6.50			Brecciated/fault(?) zone
--	--				K191952	3	3.00			Blank
184.25	187.25	3.00	3.00	100	K191953	3	10.10			
187.25	190.25	3.00	2.98	99.3	K191954	3	9.90			
190.25	193.19	2.94	2.92	99.3	K191955	3	10.00			
--	--				K191956	3	4.30			Quarter split duplicate.

Sample Log

[illegible]

Geotechnical Log

Hole:QB-12-01

Tech Name: Kristina An

Date: September 7,2012

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	HCI Reactivity	Hardness	Strength	Weathering	Joint Sets						DESCRIPTION
											spacing	Attitude (tca)	Shape	Roughness	Weathering	Gouge	
0.00	0.59	0.59	0.00	0	0.00	0											Casing, no recovery.
0.59	1.52	0.93	0.93	100	0.00	0	0	2	3	4							
1.52	2.13	0.61	0.51	84	0.00	0	0	3	3	4							
2.13	3.05	0.92	0.56	61	0.00	0	0	3	4	4							
3.05	4.57	1.52	1.43	94	0.74	49	0	2	3	4							
4.57	6.10	1.53	1.51	99	0.69	45	0	3	4	2							
6.10	7.62	1.52	1.52	100	0.35	23	0	3	3	2							
7.62	9.14	1.52	1.48	97	0.50	33	0	3	3	2	0.19	58	1	3	3	4	
9.14	12.19	3.05	3.02	99	1.32	43	0	3	3	2	0.15	51	1	2	2	0	
12.19	15.24	3.05	3.05	100	0.93	30	1	2	3	2	0.28	66	2	3	2	0	
15.24	18.29	3.05	3.05	100	1.40	46	3	2	3	2	0.2	64	2	2	2	0	
18.29	21.34	3.05	3.05	100	2.04	67	0	2	3	2							
21.34	24.38	3.04	3.04	100	1.84	61	3	2	3	2	0.1	50	2	3	3	2	
24.38	27.43	3.05	3.00	98	1.66	54	3	3	3	2	0.13	54	1	3	2	2	
27.43	30.48	3.05	2.99	98	2.22	73	3	3	3	1							
30.48	33.53	3.05	3.05	100	2.08	68	1	3	3	1	0.11	47	1	3	1	0	
33.53	36.58	3.05	3.05	100	1.48	49	1	3	3	1							
36.58	39.62	3.04	3.04	100	2.42	80	3	2	3	1							
39.62	42.67	3.05	3.05	100	1.34	44	3	2	3	1	0.14	64	1	2	1	1	
42.67	45.72	3.05	3.04	100	1.66	54	3	3	3	2	0.19	69	1	2	2	1	
45.72	48.77	3.05	3.00	98	1.62	53	3	3	3	1	0.16	69	1	2	1	0	
48.77	51.82	3.05	3.05	100	1.74	57	3	3	4	1							
51.82	54.86	3.04	3.04	100	0.33	11	1	3	3	1	0.12	70	1	2	1	0	
54.86	57.91	3.05	3.05	100	1.34	44	3	3	4	1	0.18	55	2	3	1	0	
57.91	60.96	3.05	2.97	97	1.45	48	1	3	4	1							
60.96	64.01	3.05	3.02	99	0.87	29	1	3	4	1							
64.01	67.06	3.05	3.05	100	0.58	19	1	3	4	1	0.1	72	1	2	1	1	
67.06	70.10	3.04	3.04	100	1.31	43	3	3	3	1	0.09	81	1	2	1	0	
70.10	73.15	3.05	2.73	90	0.82	27	3	2	3	1	0.1	53	1	2	1	5	
73.15	76.20	3.05	2.97	97	0.14	5	3	3	3	1							
76.20	79.25	3.05	3.05	100	1.47	48	3	3	3	1	0.26	60	1	2	1	0	
79.25	82.30	3.05	3.05	100	1.95	64	1	3	3	1	0.29	70	1	2	1	1	
82.30	85.34	3.04	3.04	100	0.48	16	1	3	3	1							

Geotechnical Log

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	HCI Reactivity	Hardness	Strength	Weathering	Joint Sets						DESCRIPTION
											spacing	Attitude (tca)	Shape	Roughness	Weathering	Gouge	
85.34	88.39	3.05	3.04	100	2.10	69	1	3	4	1							
88.39	91.44	3.05	3.05	100	1.58	52	1	3	4	1	0.1	66	1	2	1	1	
91.44	94.49	3.05	3.05	100	2.39	78	1	3	4	1							
94.49	97.54	3.05	3.05	100	2.32	76	1	3	3	1							
97.54	100.58	3.04	3.04	100	1.17	38	1	3	3	1	0.12	67	1	2	1	0	
100.58	103.63	3.05	3.05	100	2.21	72	1	3	4	1	0.1	75	1	2	1	0	
103.63	106.68	3.05	3.05	100	1.14	37	1	3	3	1							
106.68	109.73	3.05	2.97	97	1.06	35	1	3	3	1	0.09	71	1	2	1	0	
109.73	112.78	3.05	3.05	100	0.73	24	1	3	3	1	0.07	55	1	2	1	1	
112.78	115.82	3.04	3.04	100	2.19	72	0	3	3	1	0.12	58	1	2	1	0	
115.82	117.96	2.16	2.16	100	1.27	59	0	3	3	1	0.17	66	1	2	1	1	
117.96	120.40	2.44	2.42	99	0.66	27	0	3	3	1	0.12	63	1	2	1	5	
120.40	123.44	3.04	3.04	100	0.72	24	1	3	4	1	0.12	60	1	3	1	1	
123.44	126.49	3.05	3.05	100	2.08	68	1	3	4	1							
126.49	129.54	3.05	3.02	99	0.92	30	1	3	3	1	0.06	71	1	2	1	0	
129.54	132.59	3.04	3.04	100	0.78	26	1	3	4	1							
132.59	135.64	3.05	3.05	100	1.63	53	0	3	4	1							
135.64	138.68	3.04	3.04	100	0.86	28	0	3	3	1	0.06	55	1	2	1	2	
138.68	141.73	3.05	2.98	98	1.98	65	1	3	4	1	0.16	24	1	2	1	0	
141.73	144.78	3.05	3.04	100	1.95	64	0	3	4	1							
144.78	146.30	1.52	1.52	100	0.95	63	0	3	3	1	0.29	44	1	2	1	0	
146.30	149.35	3.05	3.05	100	1.50	49	0	3	3	1	0.17	50	1	2	1	0	
149.35	152.40	3.05	3.05	100	1.65	54	0	3	3	1	0.05	55	1	2	1	3	
152.40	155.45	3.05	3.05	100	1.79	59	0	3	3	1	0.06	60	1	2	1	0	
155.45	158.50	3.05	3.05	100	1.86	61	0	3	3	1							
158.50	161.54	3.04	3.04	100	1.82	60	0	3	4	1							
161.54	164.59	3.05	3.05	100	1.55	51	0	3	4	1	0.12	50	1	2	1	0	
164.59	167.64	3.05	3.05	100	2.66	87	3	3	4	1							
167.64	170.69	3.05	3.05	100	2.49	82	1	3	3	1							
170.69	173.74	3.05	3.05	100	1.83	60	0	3	3	1	0.22	68	1	2	1	0	
173.74	176.78	3.04	3.04	100	2.53	83	0	3	4	1							
176.78	179.83	3.05	3.05	100	2.52	83	0	3	4	1							
179.83	182.88	3.05	3.05	100	1.68	55	0	3	4	1							
182.88	185.93	3.05	3.05	100	1.46	48	0	3	4	1							
185.93	188.98	3.05	3.05	100	1.79	59	0	3	3	1	0.13	67	1	2	1	0	
188.98	192.02	3.04	3.02	99	2.36	78	1	3	4	1	0.23	46	1	2	1	0	
192.02	195.07	3.05	3.05	100	1.74	57	0	3	4	1	0.14	73	1	2	1	2	

Geotechnical Log

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	HCI Reactivity	Hardness	Strength	Weathering	Joint Sets						DESCRIPTION
											spacing	Attitude (tca)	Shape	Roughness	Weathering	Gouge	
195.07	198.12	3.05	3.05	100	2.09	69	1	3	4	1	0.17	50	1	2	3	0	
198.12	201.17	3.05	3.03	99	1.42	47	0	3	4	1	0.05	48	1	2	1	0	

Hole:QB-12-01

Date: September 2012

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
3.86	FO	40	
5.97	FO	55	
8.05	FO	48	
9.81	FO	39	
14.85	FO	58	
17.48	FO	35	
29.22	FO	48	
33.72	FO	48	
34.58	FO	57	
36.06	FO	29	
37.1	FO	60	
41.66	FO	72	
45.31	FO	65	
45.64	FO	58	
48.42	FO	63	
51	FO	79	
53.97	FO	72	
65.06	FO	70	
68.62	FO	72	
71.66	FO	54	
74.05	FO	42	
76.64	FO	42	
77.43	FO	45	
80.62	FO	30	
84.7	FO	65	
90.57	FO	76	
94.7	FO	69	
99.03	FO	50	
102	FO	58	
105.76	FO	55	
106.94	FO	58	
109.47	FO	69	
111.2	FO	66	
112	FO	70	
114.12	FO	65	
117.84	FO	62	
119.61	FO	51	
121.36	FO	60	
123.61	FO	60	
128.1	FO	62	
135.17	FO	60	
135.8	FO	45	
139.66	FO	60	

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
146	FO	44	
149.71	FO	54	
152.16	FO	58	
162.15	FO	54	
165	FO	55	
168.85	FO	43	
174.64	FO	50	
177.7	FO	42	
179.52	FO	29	
184.62	FO	50	
187.07	FO	60	
190.34	FO	42	
192.87	FO	80	
201.05	FO	52	
205.15	FO	50	
208.01	FO	42	
262.02	FO	58	
213.84	FO	66	
215.16	FO	60	
217.18	FO	70	
220.91	FO	42	
223.79	FO	73	
226.59	FO	59	
231.22	FO	59	
235.26	FO	66	
237.85	FO	40	
239.72	FO	51	
241.09	FO	61	
244.34	FO	52	
247.43	FO	42	
251.53	FO	68	
254	FO	69	
257.33	FO	55	
260.09	FO	68	
263.07	FO	64	
265.94	FO	68	
269.89	FO	65	
270.48	FO	20	
270.66	FO	59	
273.87	FO	65	
277.1	FO	45	
280.22	FO	48	
284.32	FO	57	

PRIMARY STRUCTURE LOG

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
143.5	FO	60	
287.1	FO	68	
289.7	FO	55	
291.11	FO	30	
294.08	FO	78	
301.6	FO	73	
303	FO	49	
304.68	FO	37	EOH at 304.80 m.

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
286.47	FO	81	

PRIMARY STRUCTURE LOG

Magnetic Susceptibility Log

Hole:QB-12-01

Date: Sep-12

Depth (m)	Magnetic Susceptibility	DESCRIPTION
1.00	4.25	
2.00	0.01	
3.00	0.16	
4.00	0.00	
5.00	0.03	
6.00	0.13	
7.00	0.05	
8.00	0.05	
9.00	0.04	
10.00	0.07	
11.00	0.00	
12.00	0.07	
13.00	0.03	
14.00	0.00	
15.00	0.00	
16.00	0.03	
17.00	0.09	
18.00	0.11	
19.00	0.00	
20.00	0.04	
21.00	0.00	
22.00	0.09	
23.00	0.06	
24.00	0.00	
25.00	0.14	
26.00	0.10	
27.00	0.02	
28.00	0.15	
29.00	0.09	
30.00	0.15	
31.00	0.02	
32.00	0.00	
33.00	0.02	
34.00	0.49	
35.00	0.01	
36.00	0.05	
37.00	0.03	
38.00	0.14	
39.00	0.01	
40.00	0.16	
41.00	0.08	
42.00	0.01	
43.00	0.08	
44.00	0.07	
45.00	0.08	
46.00	4.93	
47.00	1.31	
48.00	0.06	
49.00	0.11	
50.00	0.01	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
52.00	0.03	
53.00	0.05	
54.00	0.05	
55.00	0.03	
56.00	0.07	
57.00	0.01	
58.00	0.03	
59.00	0.02	
60.00	0.04	
61.00	0.17	
62.00	0.06	
63.00	0.14	
64.00	0.03	
65.00	0.12	
66.00	0.00	
67.00	0.19	
68.00	0.04	
69.00	0.10	
70.00	0.08	
71.00	0.13	
72.00	0.03	
73.00	0.08	
74.00	0.05	
75.00	0.08	
76.00	0.46	
77.00	0.01	
78.00	0.11	
79.00	0.20	
80.00	1.40	
81.00	0.35	
82.00	0.05	
83.00	0.02	
84.00	0.12	
85.00	0.09	
86.00	0.07	
87.00	0.19	
88.00	0.00	
89.00	0.05	
90.00	0.06	
91.00	0.03	
92.00	0.05	
93.00	0.76	
94.00	0.10	
95.00	0.43	
96.00	0.05	
97.00	0.47	
98.00	0.23	
99.00	0.04	
100.00	0.09	
101.00	0.05	

Magnetic Susceptibility Log

Depth (m)	Magnetic Susceptibility	DESCRIPTION
51.00	0.46	
104.00	0.21	
105.00	0.30	
106.00	0.04	
107.00	0.16	
108.00	0.10	
109.00	0.11	
110.00	0.82	
111.00	0.14	
112.00	0.03	
113.00	0.33	
114.00	0.50	
115.00	1.39	
116.00	0.43	
117.00	0.15	
118.00	0.13	
119.00	0.12	
120.00	0.13	
121.00	0.00	
122.00	0.00	
123.00	0.11	
124.00	0.08	
125.00	0.00	
126.00	0.11	
127.00	0.05	
128.00	0.00	
129.00	0.00	
130.00	0.02	
131.00	0.22	
132.00	0.00	
133.00	0.00	
134.00	0.00	
135.00	0.08	
136.00	0.62	
137.00	0.36	
138.00	0.16	
139.00	0.15	
140.00	0.12	
141.00	0.05	
142.00	0.00	
143.00	1.28	
144.00	0.55	
145.00	0.03	
146.00	0.34	
147.00	0.03	
148.00	0.16	
149.00	0.20	
150.00	2.89	
151.00	0.00	
152.00	1.75	
153.00	0.08	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
102.00	0.05	
103.00	0.10	
156.00	0.07	
157.00	0.63	
158.00	0.26	
159.00	0.12	
160.00	0.00	
161.00	0.08	
162.00	0.23	
163.00	0.77	
164.00	0.01	
165.00	0.95	
166.00	0.15	
167.00	0.13	
168.00	5.09	
169.00	0.15	
170.00	0.58	
171.00	0.09	
172.00	0.04	
173.00	0.00	
174.00	0.30	
175.00	0.01	
176.00	0.13	
177.00	0.18	
178.00	0.14	
179.00	0.03	
180.00	0.21	
181.00	0.02	
182.00	0.03	
183.00	0.10	
184.00	0.00	
185.00	0.03	
186.00	0.01	
187.00	0.01	
188.00	0.00	
189.00	0.04	
190.00	0.20	
191.00	0.25	
192.00	0.14	
193.00	0.45	
194.00	0.35	
195.00	0.35	
196.00	0.01	
197.00	0.06	
198.00	0.45	
199.00	0.01	
200.00	0.02	
201.00	0.70	
202.00	0.01	
203.00	2.04	
204.00	0.54	

Magnetic Susceptibility Log

Depth (m)	Magnetic Susceptibility	DESCRIPTION
154.00	0.00	
155.00	0.17	
208.00	0.28	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
205.00	0.15	
206.00	0.26	
207.00	0.16	

Box Log

Hole: QB-12-01

Box #	From (m)	To (m)
1	0.59	4.43
2	4.43	8.12
3	8.12	12.19
4	12.19	15.96
5	15.96	20.05
6	20.05	24.13
7	24.13	28.23
8	28.23	32.55
9	32.55	36.58
10	36.58	40.86
11	40.86	44.76
12	44.76	48.77
13	48.77	53.02
14	53.02	57.11
15	57.11	61.17
16	61.17	65.26
17	65.26	69.42
18	69.42	73.57
19	73.57	77.39
20	77.39	81.65
21	81.65	85.49
22	85.49	89.83
23	89.83	93.98
24	93.98	98.17
25	98.17	102.42
26	102.42	106.56
27	106.56	110.63
28	110.63	114.79
29	114.79	118.97
30	118.97	123.19
31	123.19	127.33
32	127.33	131.39
33	131.39	135.53
34	135.53	139.54
35	139.54	143.64
36	143.64	147.87
37	147.87	151.94
38	151.94	155.71
39	155.71	159.89
40	159.89	164.11
41	164.11	168.47
42	168.47	172.60
43	172.60	176.78
44	176.78	180.88
45	180.88	184.95
46	184.95	189.18

Date: Sep-12

[illegible]